EXHIBIT A

Intertrust v. MS: JCCS Claim Chart

U.S. Patent No. 6,253,193, Asserted Claim 1

	'193 Claim 1	IT Construction	MS Construction
1.		The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
2.	receiving a digital file including music,		
3.		secure: One or more mechanisms are employed to prevent, detect or discourage misuse of or interference with information or processes. Such mechanisms may include concealment, Tamper Resistance, Authentication and access control. Concealment means that it is difficult to read information (for example, programs may be encrypted). Tamper Resistance and Authentication are separately defined (see item #67 and item #27, respectively, below). Access control means that access to information or processes is limited on the basis of authorization. Security is not absolute, but is designed to be sufficient for a particular purpose.	secure: (1) A state in which all users of a system are guaranteed that all information, processes, and devices within the system, shall have their availability, secrecy, integrity, authenticity and nonrepudiation maintained against all of the identified threats thereto. (2) "Availability" means the property that information is accessible and usable upon demand by authorized persons, at least to the extent that no user may delete the information without authorization. (3) "Secrecy," also referred to as confidentiality, means the property that information (including computer processes) is not made available or disclosed to unauthorized persons or processes. (4) "Integrity" means the property that information has not been altered either intentionally or accidentally. (5) "Authenticity" means the property that the characteristics asserted about a person, device, program, information, or process are genuine and timely, particularly as to identity, data integrity, and origin integrity. (6) "Nonrepudiation" means the property that a sender of information cannot deny its origination and that a recipient of information cannot deny its receipt.

_	(102 Claim 1	IT Construction	MS Construction
	<u>'193 Claim 1</u>	secure: see item #3 above	secure: see item #3 above
4.	storing information	secure: see item #3 above	secure: see item #3 above
	associated with said	L. J. A. Y. F	budget: (1) A unique time of
	digital file in a	budget: Information specifying a	budget: (1) A unique type of
	secure database	limitation on usage.	"method" that specifies a decrementable numerical limitation
	stored on said first		
	device,	control: Information and/or	on future Use (e.g., copying) of
	said information	programming controlling operations	digital information and how such Use
	including at least	on or use of resources (e.g., content)	will be paid for, if at all.
	one budget control	including (a) permitted, required or	(2) A "method" is a collection of
	and	prevented operations, (b) the nature	basic instructions, and information
	, 	or extent of such operations or (c) the	related to basic instructions, that
		consequences of such operations.	provides context, data, requirements,
			and/or relationships for use in
			performing, and/or preparing to
			perform, basic instructions in relation
			to the operation of one or more
			electronic appliances.
			control: (1) Independent, special-
			purpose, Executable, which can
			execute only within a Secure
			Processing Environment (see below).
			(2) Each VDE Control is a
			Component Assembly dedicated to a
	•		particular activity (e.g., editing,
		·	modifying another Control, a user-
			defined action, etc.), particular
			user(s), and particular protected
			information, and whose satisfactory
			execution is necessary to Allowing
			(see below) that activity.
			(3) Each separate information Access
			(see below) or Use is independently
			Controlled by independent VDE
			Control(s).
			(4) Each VDE Control is assembled
			within a Secure Processing
			Environment from independently
			deliverable modular components
			(e.g., Load Modules (see below) or
			other Controls), dynamically in
			response to an information Access or
			Use Request.
			(5) The dynamic assembly of a
			Control is directed by a "blueprint"
			Record (see below) (put in place by
			one or more VDE users) Containing
			control information identifying the
			exact modular code components to be

'193 Claim 1	IT Construction MS Construction
	assembled and executed to govern
	(i.e., Control) this particular activity
	on this particular information by this
	particular user(s).
	(6) Each Control is independently
	assembled, loaded and delivered vis-
	à-vis other Controls.
	(7) Control information and Controls
	are extensible and can be configured
	and modified by all users, and
-	combined by all users with any other
	VDE control information or Controls
	(including that provided by other
	users), subject only to "senior" user
	Controls.
	(8) Users can assign control
	information (including alternative
	control information) and Controls to
	an arbitrarily fine, user-defined
	portion of the protected information,
	such as a single paragraph of a
	document, as opposed to being
'	limited to file-based controls.
	(9) VDE Controls reliably limit Use
	of the protected information to only
[]	authorized activities and amounts.
	delilotteod double and anno anno anno anno anno anno anno
	For the purposes of the construction
	of "Control," a "Secure Processing
1	Environment" is defined as: A
.	Secure Processing Environment is
	uniquely identifiable, self-contained,
	non-circumventable, and trusted by
	all other VDE nodes to protect the
	availability, secrecy, integrity and
	authenticity of all information
	identified in the patent application as
	being protected, and to guarantee that
	such information will be accessed and
	Used only as expressly authorized by
	the associated VDE Controls, and to
	guarantee that all requested reporting
] .	of and payments for protected
	information use will be made. A
	Secure Processing Environment is
	formed by, and requires, a Secure
	Processing Unit having a hardware
1 1	1
	Tompor Pacietant Rarriar
	Tamper Resistant Barrier encapsulating a processor and internal

 	TITLE I	MC Construction
<u>'193 Claim 1</u>	IT Construction	MS Construction
		Secure memory. The Tamper Resistant Barrier prevents all unauthorized interference, removal, observation, and other Use of the information and processes within it.
		For the purposes of the construction of "Control," "Allowing" is defined as: Actively permitting an action that otherwise cannot be taken (i.e., is prohibited) by any user, process, or device. In VDE, an action is allowed only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular action request, and satisfaction of all requirements imposed by such execution.
		For the purposes of the construction of "Control," "Access" is defined as: To satisfactorily perform the steps necessary to obtain something so that it can be Used in some manner (e.g., for information: copied, printed, decrypted, encrypted, saved,
		modified, observed, or moved, etc.). In VDE, access to protected information is achieved only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular "access" request, satisfaction of all requirements imposed by such execution, and the Controlled opening of the Secure Container Containing the information.
	·	For the purposes of the construction of "Control," a "Load Module" is defined as: An Executable, modular unit of machine code (which may include data) suitable for loading into memory for execution by a processor. A load module is encrypted (when not within a secure processing unit) and has an Identifier that a calling process must provide to be able to use the load module. A load module is combinable with other load modules,

	'193 Claim 1	IT Construction	MS Construction
			and associated data, to form Executable Component Assemblies. A load module can execute only in a VDE Protected Processing Environment. Library routines are not load modules and dynamic link libraries are not load modules.
			For the purposes of the construction of "Control," a "Record" is defined as: A data structure that is a collection of fields (elements), each with its own name and type. Unlike an array, whose elements are accessed using an index, the elements of a record are accessed by name. A record can be accessed as a collective unit of elements, or the elements can be accessed individually.
5.	at least one copy control,	copy: To reproduce. The reproduction must be usable, may incorporate all of the original item or only some of it, and may involve some changes to the item as long as the essential nature of the content remains unchanged. control: see item #4 above	copy: (1) To reproduce all of a Digital File (see below) or other complete physical block of data from one location on a storage medium to another location on the same or different storage medium, leaving the original block of data unchanged, such that two distinct and independent objects exist. (2) Although the layout of the data values in physical storage may differ from the original, the resulting "copy" is logically indistinguishable from the original. (3) The resulting "copy" may or may not be encrypted, ephemeral, usable, or accessible.
			For the purposes of the construction of "Copy," a "Digital File" is defined as: A named, static unit of storage allocated by a "file system" and Containing digital information. A digital file enables any application using the "file system" to randomly access its contents and to distinguish it by name from every other such unit. A copy of a digital file is a separate digital file. A "file system" is the portion of the operating system

			1
	<u>'193 Claim 1</u>	IT Construction	MS Construction
			that translates requests made by application programs for operations on "files" into low-level tasks that can control storage devices such as disk drives. control: see item #4 above
_	. 1 . 1	hudget, aggitem #4 above	budget: see item #4 above
6.	budget control including a budget specifying the	budget: see item #4 above control: see item #4 above	control: see item #4 above
	number of copies which can be made of said digital file;	a budget specifying the number of copies which can be made of said digital file: Normal English, incorporating the separately defined terms: a Budget stating the number	a budget specifying the number of copies which can be made of said digital file: A Budget explicitly stating the total number of copies (whether or not decrypted, long-lived,
		of copies that can be made of the digital file referred to earlier in the claim.	or accessible) that (since creation of the Budget) are authorized to be made of the <i>Digital File</i> by any and all users, devices, and processes. No process, user, or device is able to make another copy of the <i>Digital File</i> once this number of copies has been
7.	and said at least one	copy: see item #5 above	made. For the purposes of the construction of this phrase, "Digital File" is defined as set forth in item #5, above. copy: see item #5 above
	and said at least one copy control controlling the copies made of said digital file;	control: see item #3 above control: see item #4 above controlling: Normal English: exercising authoritative or dominating influence over; directing. controlling the copies made of said digital file: The nature of this operation is further defined in later claim elements. In context, the copy control determines the conditions under which a digital file may be Copied and the copied file stored on a second device.	control: see item #4 above controling: (1) Reliably defining and enforcing the conditions and requirements under which an action that otherwise cannot be taken, will be Allowed, and the manner in which it may occur. Absent verified satisfaction of those conditions and requirements, the action cannot be taken by any user, process or device. (2) In VDE, an action is Controlled through execution of the applicable VDE Control(s) within a VDE Secure Processing Environment. (3) More specifically, in VDE, Controlling is effected by use of VDE Controls, VDE Secure Containers, and VDE foundation

'193 Claim 1	IT Construction	MS Construction
		(including VDE Secure Processing Environment, "object registration," and other mechanisms for allegedly individually ensuring that specific Controls are enforced vis-à-vis specific objects (and their content at an arbitrary granular level) and specific "users").
		For the purposes of the construction of "Control (v.)" et al, "Allowed" and "Secure Processing Environment" are defined as set forth in item #4, above.
		controlling the copies made of said digital file: Controlling Uses of and Accesses to all copies of the Digital File, by all users, processes, and devices, by executing each of the recited "at least one" Copy Control(s) within VDE Secure Processing Environment(s). Each Control governs (Controls) only one action, which action may or may not differ among the different "at least one" Controls. All Uses and Accesses are prohibited and incapable of occurring except to the extent Allowed by the "at least one" Copy Control(s). For the purposes of the construction
		For the purposes of the construction of this phrase, "Secure Processing Environment," "Access" and "Allowed" are defined as set forth in item #4, above.

			1
	<u>'193 Claim 1</u>	IT Construction	MS Construction
8.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital		
	file may be copied	control: see item #4 above	control: see item #4 above
	and stored on a		
	second device		·
	based on at least		
	said copy control;		
9.	10	copied (copy): see item #5 above	copied (copy): see item #5 above
	allows at least a		
	portion of said	control: see item #4 above	control: see item #4 above
	digital file to be		
	copied and stored		
	on a second device,		
10.	100	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
11.			
	a portion of said		
	digital file to a	·	
	second device		
ļ .	including a memory		
	and an audio and/or		
	video output;		
12.	storing said digital		
	file in said memory		·
	of said second		
	device; and		
13.			
	said music through		
1	said audio output.		

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	'193 Claim 11	IT Construction	MS Construction
		The claim contains no requirement of	Claim as a whole: The recited
14.	11. A method	a VDE.	method is performed within a VDE.
	comprising:	a VDE.	(See item #86 for Microsoft's
			construction of VDE.)
15.	• •		
	file;	' #2 abase	secure: see item #3 above
16.	storing said digital	secure: see item #3 above	Secure. See hell #3 above
	file in a first secure		
	memory of a first		
	device;	; #2 ab and	secure: see item #3 above
17.		secure: see item #3 above	Secure. See Rem #3 above
	associated with	l	control: see item #4 above
	said digital file in a	control: see item #4 above	Control. See Item #4 above
	secure database	·	
	stored on said first		
-	device,		
	said information		
	including a first		
	control;	and (conv), see item #5 shove	copied (copy): see item #5 above
18.	determining	copied (copy): see item #5 above	copied (copy). See item #5 docto
	whether said digital	control: see item #4 above	control: see item #4 above
1	file may be copied and stored on a	Control. See Item #4 above	<u>oomio.</u>
1	second device		
	based on said first		
	control, said determining step		
	including		
İ	identifying said		
	second device and		
	determining		
	whether,		
19		control: see item #4 above	control: see item #4 above
	allows transfer of		
	said copied file to	copied (copy): see item #5 above	copied (copy): see item #5 above
-	said second device,		
1	said determination		
	based at least in	•	1
	part on the features		
	present at the		
	device to which		
ĺ	said copied file is		
	to be transferred;		

	'193 Claim 11	IT Construction	MS Construction
20.	if said first control	control: see item #4 above	control: see item #4 above
	allows at least a		·
	portion of said	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		
	copied and stored		
	on a second device,		
21.	copying at least a	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
22.		•	
	a portion of said		
	digital file to a		
	second device	·	
	including a		
	memory and an		
	audio and/or video		
	output;		
23.			
	file in said memory		1
	of said second		}
L	device; and		
24.	•		
	digital file through		
1	said output.		

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	'193 Claim 15	IT Construction	MS Construction
25.	15. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #93 for Microsoft's construction of VDE.)
26.	receiving a digital file;		
27.	an authentication step comprising:	authentication: Identifying (e.g., a person, device, organization, document, file, etc.). Includes uniquely identifying or identifying as a member of a group.	authentication: To establish that the following asserted characteristics of something (e.g., a person, device, organization, document, file, etc.) are genuine: its identity, its data integrity, (i.e., it has not been altered) and its origin integrity (i.e., its source and time of origination).
28.	one identifier associated with a first device or with a user of said first device; and	identifier: Information used to identify something or someone (e.g., a password). In this definition, "identify" means to establish the identity of or to ascertain the origin, nature, or definitive characteristics of; includes identifying as an individual or as a member of a group.	identifier: Any text string used as a label naming an individual instance of what it <i>Identifies</i> (see below) For the purpose of the construction of "Identifier," " <i>Identify</i> " is defined as: To establish as being a particular instance of a person or thing.
29.	determining whether said identifier is associated with a device and/or user authorized to store said digital file;	identifier: see item #28 above	identifier: see item #28 above
30.		secure: see item #3 above	secure: see item #3 above
31.	storing information associated with said digital file in a secure database stored on said first	secure: see item #3 above control: see item #4 above	secure: see item #3 above control: see item #4 above

		ITD O	MS Construction
[<u>'193 Claim 15</u>	IT Construction	<u>ivis Construction</u>
	device, said		
	information		1
	including at least		
	one control;		
32.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital		
	file may be copied	control: see item #4 above	control: see item #4 above
	and stored on a		
	second device	·	
	based on said at		
	least one control;		
33.	if said at least one	control: see item #4 above	control: see item #4 above
	control allows at		
	least a portion of	copied (copy): see item #5 above	copied (copy): see item #5 above
	said digital file to		
	be copied and		
	stored on a second		
	device,		4.5
34.		copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
35.		·	
ļ	a portion of said		
	digital file to a		
ļ	second device		
ł	including a memory		
	and an audio and/or	·	·
	video output;		
36.	storing said digital	- ()	
	file in said memory		·
1	of said second		
	device; and		
37.			
	digital file through		
	said output.		

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	'193 Claim 19	IT Construction	MS Construction
38.	19. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
39.	receiving a digital file at a first device;		
40.	establishing communication between said first device and a clearinghouse located at a location remote from said first device;	clearinghouse: A provider of financial and/or administrative services for a number of entities; or an entity responsible for the collection, maintenance, and/or distribution of materials, information, licenses, etc.	clearinghouse: (1) A computer system that provides intermediate storing and forwarding services for both content and audit information, and which two or more parties trust to provide its services independently because it is operated under constraint of VDE security. (2) "Audit information" means all information created, stored, or reported in connection with an "auditing" process. "Auditing" means tracking, metering and reporting the usage of particular information or a particular appliance.
41.	said first device obtaining authorization information including a key from said clearinghouse;	clearinghouse: see item #40 above	clearinghouse: see item #40 above
42.	said first device using said authorization information to gain access to or make at least one use of said first digital file, including using said key to decrypt at least a portion of said first digital file; and	use: Normal English: to put into service or apply for a purpose, to employ.	use: (1) To use information is to perform some action on it or with it (e.g., copying, printing, decrypting, encrypting, saving, modifying, observing, or moving, etc.). (2) In VDE, information Use is Allowed only through execution of the applicable VDE Control(s) and satisfaction of all requirements imposed by such execution. For the purposes of the construction of "Use," "Allowed" is defined as set forth in item #4, above.
43.	receiving a first control from said clearinghouse at said first device;	control: see item #4 above clearinghouse: see item #40 above	control: see item #4 above clearinghouse: see item #40 above

			MC Construction
	<u>'193 Claim 19</u>	IT Construction	MS Construction
44.	<u> </u>	·	
	digital file in a		·
	memory of said		
	first device;		
45.	using said first	control: see item #4 above	control: see item #4 above
	control to		
	determine whether	copied (copy): see item #5 above	copied (copy): see item #5 above
	said first digital file		
	may be copied and		
	stored on a second		
	device;		
46.	if said first control	control: see item #4 above	control: see item #4 above
	allows at least a		
	portion of said first	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		
	copied and stored		
	on a second device,		
47.		copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said first		
	digital file;		
48.	_		
	a portion of said		
	first digital file to a		
	second device		
	including a	·	
	memory and an		
,	audio and/or video	·	
1	output;		
49.	storing said first	×	
	digital file portion		·
	in said memory of said second device;		
1			
50	and		
30.	rendering said first digital file portion		
	through said		
L	output.	l	<u></u>

	((02 Claim 2	IT Construction	MS Construction
	<u>'683 Claim 2</u>		Claim as a Whole: The "system" is a
51.	_	The claim contains no requirement	VDE. (See item #86 for Microsoft's
	including:	of a VDE.	construction of VDE .)
			construction of VDE.)
52.	a first apparatus		
	including,		
53.	user controls,	control: see item #4 above	control: see item #4 above
54.	a communications		
"	port,		
55.	a processor,		
56.	a memory storing:		
57.	a first secure	secure container: A container that is	secure container: (1) A VDE Secure
]	container	Secure.	Container is a self-contained, self-
	Contamina		protecting data structure which (a)
		In this definition, "container" means	encapsulates information of arbitrary
		a digital file containing linked and/or	size, type, format, and organization,
		embedded items.	including other, nested, containers,
	,		(b) cryptographically protects that
	·		information from all unauthorized
1		i "	Access and Use, (c) provides
			encrypted storage management
1		1	functions for that information, such
			as hiding the physical storage
		•	location(s) of its protected contents,
i			(d) permits the association of itself or
			its contents with Controls and
			control information governing
		·	(Controlling) Access to and Use
			thereof, and (e) prevents such Use or
			Access (as opposed to merely
			preventing decryption) until it is
			"opened."
			(2) A Secure Container can be
Ì			opened only as expressly Allowed by
1			the associated VDE Control(s) , only
			within a Secure Processing Environment, and only through
		·	decryption of its encrypted header.
	,		(3) A Secure Container is not
		·	directly accessible to any non-VDE
}			or user calling process. All such calls
		·	are intercepted by VDE .
			(4) The creator of a Secure
			Container can assign (or allow
			others to assign) control information
			to any arbitrary portion of a Secure
			Container's contents, or to an empty
			Secure Container (to govern
<u></u>	<u> </u>	<u> </u>	occure container (to govern

	<u>'683 Claim 2</u>	<u>IT Construction</u>	MS Construction
		:	(Control) the later addition of
			contents to the container, and Access
			to or Use of those contents).
[.]		·	(5) A container is not a Secure
			Container merely because its
			contents are encrypted and signed. A
		·	Secure Container is itself Secure.
			(6) All VDE-protected information
			(including protected content,
			information about content usage,
			content-control information,
			Controls, and Load Modules) is
	*		encapsulated within a Secure
			Container whenever stored outside a
			Secure Processing Environment or
		·	secure database.
			For the purposes of the construction
			of "Secure Container," "Secure
			Processing Environment," "Load
			Module," "Access" and "Allow" are
			defined as set forth in item #4, above.
58.	containing a	containing: Normal English: having	containing: Physically (directly)
	governed item,	within or holding. In the context of	storing within, as opposed to
i		an element contained within a data	addressing (i.e., referring to
		structure (e.g., a secure container),	something by the explicitly identified
		the contained element may be either	location where it is stored, without
		directly within the container or the	directly storing it).
		container may hold a reference	·
	(*)	indicating where the element may be	
		found.	
59.		secure container: see item #57 above	secure container: see item #57 above
	container governed	·	
	item being at least		
	in part encrypted;		·
	the first secure		
	container having		
	been received from		
	a second apparatus;		

	•		
	'683 Claim 2	IT Construction	MS Construction
60.	a first secure	secure container: see item #57 above	secure container: see item #57 above
	container rule		
]]	at least in part	aspect: Feature, element, property or	aspect: An aspect of an environment
	governing an	state.	is a persistent element or property of
	aspect of access to		that environment that can be used to
	or use of said first	use: see item #42 above	distinguish it from other
	secure container		environments.
	governed item,		·
	the first secure	·	use: see item #42 above
	container rule, the		•
	first secure		•
	container rule		
	having been	·	
	received from a		
	third apparatus		
	different from said	·	
ļ	second apparatus;		
	and		
61		secure container: see item #57 above	secure container: see item #57 above
61.	software used for	Scene container. See hem not use to	
		contain (containing): see item #58	contain (containing): see item #58
	receiving and	above	above
	opening secure containers,	40040	
	said secure		
	containers each	·	
	including the		
1	capacity to contain		
	a governed item, a secure container		·
	rule being	•	
1	associated with		
	each of said secure		
<u> </u>	containers;	protected processing anvironment:	protected processing environment:
62.	a protected	protected processing environment: An environment in which processing	(1) A uniquely identifiable, self-
	processing	and/or data is at least in part	contained computing base trusted by
	environment at	protected from tampering. The level	all VDE nodes to protect the
	least in part	of protection can vary, depending on	availability, secrecy, integrity and
1	protecting	the threat.	authenticity of all information
	information	uic uiicat.	identified in the February, 1995,
1	contained in said	In this definition "anvisonment"	patent application as being protected,
	protected	In this definition, "environment"	and to guarantee that such
	processing	means capabilities available to a	information will be Accessed and
	environment from	program running on a computer or	Used only as expressly authorized by
	tampering by a user	other device or to the user of a	VDE Controls.
	of said first	computer or other device.	
	apparatus,	Depending on the context, the	(2) At most VDE nodes, the
		environment may be in a single	Protected Processing Environment
		device (e.g., a personal computer) or	is a Secure Processing Environment
L		may be spread among multiple LAIM CONSTRUCTION STATEMEN	which is formed by, and requires, a

'683 Claim 2	IT Construction	MS Construction
	devices (e.g., a network).	hardware Tamper Resistant Barrier
·		encapsulating a special-purpose
	contained (containing): see item #58	Secure Processing Unit having a
	above	processor and internal secure
		memory. "Encapsulated" means
		hidden within an object so that it is
	· ·	not directly accessible but rather is
	·	accessible only through the object's
	·	restrictive interface.
		(3) The Tamper Resistant Barrier
		prevents all unauthorized (intentional
		or accidental) interference, removal,
		observation, and use of the
		information and processes within it,
		by all parties (including all users of
	·	the device in which the Protected
'		Processing Environment resides),
		except as expressly authorized by
<u> </u>	•	VDE Controls.
		(4) A Protected Processing
i i		Environment is under Control of
		Controls and control information
		provided by one or more parties,
<u> </u>		rather than being under Control of
·		the appliance's users or programs.
	·	(5) Where a VDE node is an
	1	established financial Clearinghouse,
		or other such facility employing
	ł	physical facility and user-identity
	·	Authentication security procedures
		trusted by all VDE nodes, and the
]		VDE node does not Access or Use
	* i .	VDE-protected information, or
		assign VDE control information, then
		the Protected Processing
:		Environment at that VDE node may
		instead be formed by a general-
		purpose CPU that executes all VDE
		"security" processes in protected
		(privileged) mode.
		(6) A Protected Processing
		Environment requires more than just
		verifying the integrity of Digitally
		Signed Executable programming
		prior to execution of the
		programming; or concealment of the
		program, associated data, and
		execution of the program code; or use
		of a password as its protection
	LAIM CONSTRUCTION STATEME	

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	<u>'683 Claim 2</u>	IT Construction	MS Construction
63.	said protected processing environment including hardware or software used for applying said first secure container rule and a second secure container rule in combination to at least in part govern at least one aspect of access to or use of a governed item contained in a secure container; and	protected processing environment: see item #62 above secure container: see item #57 above aspect: see item #60 above use: see item #42 above contained (containing): see item #58 above	mechanism. For the purposes of the construction of "Protected Processing Environment," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above. contained (containing): see item #58 above protected processing environment: see item #62 above secure container: see item #57 above aspect: see item #60 above use: see item #42 above contained (containing): see item #58 above
64.	hardware or software used for transmission of secure containers to other apparatuses or for the receipt of secure containers from other apparatuses.	secure container: see item #57 above	secure container: see item #57 above

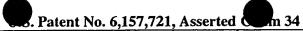
3. P	atent No.	6,157,721	, Asserted	Jm :

	'721 Claim 1	IT Construction	MS Construction
65.	1. A security method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
66.	digitally signing a first load module with a first digital signature designating the first load module for use by a first device class;	digital signature: A digital value, verifiable with a key, that can be used to determine the source and/or integrity of a signed item (e.g., a file, program, etc.). Digitally signing is the process of creating a digital signature. designating: Normal English: indicating, specifying, pointing out or characterizing. use: see item #42 above device class: A group of devices which share at least one attribute.	digitally signing: (1) Creating a Digital Signature using a secret Key (see below). (2) In symmetric key cryptography, a "secret key" is a Key that is known only to the sender and recipient. In asymmetric key cryptography, a "secret key" is the private Key of a public/private key pair, in which the two keys are related uniquely by a predetermined mathematical relationship such that it is computationally infeasible to determine one from the other. For the purposes of the construction
		WHICH SHARE at least one distribute.	of "Digital Signing," a "Key" is defined as: A bit sequence used and needed by a cryptographic algorithm to encrypt a block of plain text or to decrypt a block of cipher text. A key is different from a key seed or other information from which the actual encryption and/or decryption key is constructed, Derived, or otherwise identified. In symmetric key cryptography, the same key is used for both encryption and decryption. In asymmetric or "public key" cryptography, two related keys are used; a block of text encrypted by one of the two keys (e.g., the "public key") can be decrypted only by the corresponding key (e.g., the "private key").
		CLAIM CONSTRUCTION STATEME	digital signature: A computationally unforgeable string of characters (e.g., bits) generated by a cryptographic operation on a block of data using some secret. The string can be generated only by an entity that knows the secret, and hence provides

	<u> '721 Claim 1</u>	IT Construction	MS Construction
			evidence that the entity must have
			generated it.
			designating: Designating something
			for a particular Use means specifying
			it for and restricting it to that Use.
			use: see item #42 above
			device class: The generic name for a
		·	group of device types. For example,
.			all display stations belong to the same
			device class. A device class is
1		·	different from a device type. A
			device type is composed of all
		<i>.</i>	devices that share a common model
		(number or family (e.g. IBM 4331
		·	printers).
67.	digitally signing a	digital signature: see item #66 above	digital signature: see item #66 above
	second load module		
	with a second	designating: see item #66 above	designating: see item #66 above
	digital signature		
	different from the	use: see item #42 above	use: see item #42 above
	first digital	device story and a most t	daviga classy assistant #66 sta
	signature, the	device class: see item #66 above	device class: see item #66 above
	second digital	tamper resistance. Maleira terrania	tamper resistance: The ability of a
	signature	tamper resistance: Making tampering more difficult and/or allowing	Tamper Resistant Barrier to
·	designating the second load module	detection of tampering.	prevent Access, observation, and
	for use by a second	action of tampoining.	interference with information or
	device class having	In this definition, "tampering" means	processing encapsulated by the
	at least one of	using (e.g., observing or altering) in	barrier.
	tamper resistance	any unauthorized manner, or	
	and security level	interfering with authorized use.	For the purposes of the construction
	different from the at	<u> </u>	of "Tamper Resistance,"
1	least one of tamper		"Tamper/Tampering" is defined as:
	resistance and	digitally signing a second load	Using (e.g., observing or altering) in
	security level of the	module with a second digital	any unauthorized manner, or
	first device class;	signature different from the first	interfering with authorized use.
		digital signature, the second digital	For the purposes of the construction
		signature designating the second load	of "Tamper Resistance," "Access" is
		module for use by a second device	defined as set forth in item #4, above.
		class having at least one of tamper	
		resistance and security level different	digitally signing a second load
		from the at least one of tamper	module with a second digital
		resistance and security level of the	signature different from the first
•		first device class: Normal English,	digital signature, the second digital
		incorporating the separately defined	signature designating the second load
		terms: generating a Digital Signature	module for use by a second device
	TITOTT A TO TONET	LAIM CONSTRUCTION STATEMEN	IT

	<u>'721 Claim 1</u>	<u>IT Construction</u>	MS Construction
		for the second load module, the	class having at least one of tamper
		Digital Signature Designating that the	resistance and security level different
1		second load module is for use by a	from the at least one of tamper
	·	second Device Class. This element	resistance and security level of the
1		further requires that the second	first device class: (1) Digitally
		Device Class have a different Tamper	Signing a different ("second") Load
		Resistance or security level than the	Module by using a different
		first Device Class.	("second") Digital Signature as the
			signature Key, which signing
			indicates to any and all devices in the
		·	second Device Class that the signor
l i			authorized and restricted this Load
			Module for Use by that device.
			(2) No VDE device can perform any
			execution of any Load Module
		•	without such authorization. The
			method ensures that the Load Module
			cannot execute in a particular Device
	-		Class and ensures that no device in
			that Device Class has the Key(s)
			necessary to verify the Digital
			Signature.
			(3) All devices in the first Device
			Class have the same persistent (not
		·	just occasional) and identified level of
	·		Tamper Resistance and the same
			persistent and identified level of
			security. All devices in the second
			Device Class have the same
			persistent and identified level of
	• •	•	Tamper Resistance and same
			persistent and identified level of
			security.
			(4) The identified level of Tamper
		·	Resistance or identified level of
			security (or both) for the first Device
			Class, is greater than or less than the
			identified level of Tamper
			Resistance or identified level of
			security for the second Device Class.
			For the purposes of the construction
			of this phrase, a "Load Module" is
			defined as set forth in item #4 and
			"Key" is defined as set forth in item
			#66, above.

	'721 Claim 1	IT Construction	MS Construction
68.	distributing the first load module for use	use: see item #42 above	use: see item #42 above
	by at least one device in the first device class; and	device class: see item #66 above	device class: see item #66 above
69.		use: see item #42 above	use: see item #42 above
	for use by at least one device in the second device	device class: see item #66 above	device class: see item #66 above
	class.		



	'721 Claim 34	IT Construction	MS Construction
70.	34. A protected	The claim contains no requirement of	Claim as a Whole: The "Protected
	processing	a VDE	Processing Environment" is part of
	environment		and within VDE. (See item #86 for
	comprising:	protected processing environment:	Microsoft's construction of VDE.)
		see item #62 above	
			protected processing environment:
1		"Protected processing environment"	see item #62 above
		appears in the preamble of this claim.	
		InterTrust reserves the right to assert	·
		that it should not be defined, other	
		than as requiring the individual claim	
		elements.	
71	a first towns	tamper resistant barrier: Hardware	tamper resistant barrier: (1) An active
71.	a first tamper resistant barrier	and/or software that provides Tamper	device that encapsulates and separates
	having a first	Resistance.	a Protected Processing Environment
	security level,	Tesistatio.	from the rest of the world.
	bootiley 10 (01)	·	(2) It prevents information and
		·	processes within the Protected
			Processing Environment from being
`			observed, interfered with, and leaving
			except under appropriate conditions
			ensuring security.
			(3) It also Controls external access to
			the encapsulated Secure resources,
1			processes and information.
			(4) A Tamper Resistant Barrier is
			capable of destroying protected information in response to <i>Tampering</i>
			attempts.
	,		acompo.
			For the purposes of the construction of
			"Tamper Resistant Barrier,"
			"Tamper/Tampering" is defined as set
1			forth in item #67, above.
72.	a first secure	secure: see item #3 above	secure: see item #3 above
	execution space,		
	and		

	'721 Claim 34	IT Construction	MS Construction
73.	at least one	tamper resistant barrier: see item #71	tamper resistant barrier: see item #71
	arrangement within	above	above
	the first tamper		
	resistant barrier	secure: see item #3 above	secure: see item #3 above
	that prevents the		
	first secure	executable: A computer program that	executable: A cohesive series of
İ	execution space	can be run, directly or through	machine code instructions in a format
	from executing the	interpretation.	that can be loaded into memory and
	same executable		run (executed) by a connected
	accessed by a		processor.
1	second secure		
1	execution space		
	having a second		-
	tamper resistant		
	barrier with a	·	
ŀ	second security		
	level different from		
	the first security		
1	level.		

	•			
S.	Patent No.	5,920,861	, Asserted	n 58

	'861 Claim 58	IT Construction	MS Construction
74.		The claim contains no requirement of	Claim as a whole: The recited method
/4.	creating a first	a VDE.	is performed within a VDE. (See item
	secure container,	a VBE.	#86 for Microsoft's construction of
		secure container: see item #57 above	VDE.)
	said method	Secure container. See term 1137 as over	, 22.,
	including the		secure container: see item #57 above
	following steps;		Boodie Committee
75.			
	descriptive data	•	
	structure, said		
1	descriptive data		
	structure including		
	or addressing		and the second s
76.		secure container: see item #57 above	secure container: see item #57 above
	information at least		
	in part describing a		
	required or desired		
1	organization of a	•	· ·
1	content section of		
	said first secure		
	container, and	1.50	#57 chave
77.		secure container: see item #57 above	secure container: see item #57 above
1	information at least		
	in part specifying at		
	least one step		
	required or desired		
ļ	in creation of said		
	first secure		
	container;		457 chann
78.	, –	secure container: see item #57 above	secure container: see item #57 above
	descriptive data		
	structure to organize		
-	said first secure		
	container contents;		457 -
79.		secure container: see item #57 above	secure container: see item #57 above
	information to at		1
	least in part		· ·
	determine specific		
1	information		
	required to be		
	included in said first		
	secure container		
1	contents; and		

	'861 Claim 58	IT Construction	MS Construction
80.	generating or identifying at least	control (controlling): see item #7	control (controlling): see item #7 above
	one rule designed to	aspect: see item #60 above	aspect: see item #60 above
	aspect of access to		use: see item #42 above
	or use of at least a portion of said first	use: see item #42 above	
	secure container contents.	secure container: see item #57 above	secure container: see item #57 above

	S. Patent No. 5,982,891, Asserted m: 1 IT Construction MS Construction			
	<u>'891 Claim 1</u>	IT Construction		
81.	1. A method for	The claim contains no requirement of a	Claim as a whole: The recited	
	using at least one	VDE.	method is performed within a VDE.	
	resource processed		(See item #86 for Microsoft's	
	in a secure	secure: see item #3 above	construction of VDE.)	
	operating			
ļ	environment at a	·	secure: see item #3 above	
	first appliance, said			
	method comprising:			
82.	securely receiving a	securely (secure): see item #3 above	securely (secure): see item #3 above	
	first entity's control			
	at said first	control: see item #4 above	control: see item #4 above	
	appliance, said first			
1	entity being located			
	remotely from said			
	operating			
	environment and			
	said first appliance;		securely (secure): see item #3 above	
83.		securely (secure): see item #3 above	securery (secure): see item #3 above	
1	second entity's		control: see item #4 above	
1	control at said first	control: see item #4 above	Control. See Item #4 above	
	appliance, said			
	second entity being	·		
	located remotely			
	from said operating environment and			
			·	
	said first appliance, said second entity			
	being different from			
	said first entity; and			
84.	·····	securely (secure): see item #3 above	securely (secure): see item #3 above	
04.	a data item at said	<u> </u>		
	first appliance, using			
1	at least one resource,			
	including			
85.		securely (secure): see item #3 above	securely (secure): see item #3 above	
	at said first			
	appliance through	use: see item #42 above	use: see item #42 above	
1	use of said at least			
	one resource said	control: see item #4 above	control: see item #4 above	
1	first entity's control		1	
	and said second	securely applying, at said first	securely applying, at said first	
1	entity's control to	appliance through use of said at least	appliance through use of said at least	
	govern use of said	one resource said first entity's control	one resource said first entity's control	
	data item.	and said second entity's control to	and said second entity's control to	
1		govern use of said data item: Normal	govern use of said data item: (1) Processing the resource (component	
		English, incorporating the separately	part of a first appliance's Secure	
1		defined terms: the first entity's Control	I part of a first apphance's Secure	

			NG C
	'891 Claim 1	IT Construction	MS Construction
		and the second entity's Control are	Operating Environment) within the
		Securely applied to govern Use of the	Secure Operating Environment's
		data item, the act of Securely applying	special-purpose Secure Processing
		involving use of the resource.	Unit (SPU) to execute the first
			Control and second Control in
			combination within the SPU.
		:	(2) This execution of these Controls
			governs (Controls) all Use of the
			data item by all users, processes, and
			devices.
	•	*	(3) The processing of the resource
	·		and execution of the Controls cannot
			be observed from outside the SPU
			and is performed only after the
		· .	integrity of the resource and
			Controls is cryptographically
1			verified.
		·	(4) A Secure Processing Unit is a
1			special-purpose unit isolated from the
			rest of the world in which a hardware
1		·	Tamper Resistant Barrier
			encapsulates a processor and internal
			Secure memory.
			(5) The processor cryptographically
			verifies the integrity of all code
			loaded from the Secure memory
			prior to execution, executes only the
	*		code that the processor has
			authenticated for its Use, and is
	·		otherwise Secure.

Patent No.	5,892,900,	Asserted	ı: 155

	4000 Claim 155	IT Construction	MS Construction
	<u>'900 Claim 155</u>		Claim as a Whole: The "virtual
86.		Virtual Distribution Evironment: This	
	distribution	term is contained in the preamble of	distribution environment" is VDE.
١.	environment	the claim and should not be defined,	Virtual Distribution Environment:
	comprising	other than as requiring the individual	(1) Data Security and Commerce
		claim elements.	World: InterTrust's February 13,
			1995, patent application described as
1		Without waiving its position that no	its "invention" a Virtual Distribution
İ		separate definition is required, if	Environment ("VDE invention") for
		required to propose such a definition,	securing, administering, and auditing
İ		InterTrust proposes the following:	all security and commerce digital
		secure, distributed electronic	information within its multi-node
l		transaction management and rights	world (community). VDE guarantees
ŀ	}	protection system for controlling the	to all VDE "participants" identified in
1		distribution and/or other usage of	the patent application that it will limit
1		electronically provided and/or stored	
		information.	all Access to and Use (i.e., interaction) of such information to authorized
			activities and amounts, will ensure any
			requested reporting of and payment
			for such Use, and will maintain the
l			availability, secrecy, integrity, non-
i			repudiation and authenticity of all
			•
ļ			such information present at any of its
			nodes (including protected content,
			information about content usage, and
			content Controls.).
			VDE is Secure against at least the
	,		threats identified in the Feburary
			1995, patent application to this
			availability (no user may delete the
1	·		information without authorization),
			secrecy (neither available nor
			disclosed to unauthorized persons or
			processes), integrity (neither
			intentional nor accidental alteration),
			non-repudiation (neither the receiver
1			can disavow the receipt of a message
-			nor can the sender disavow the
	1		origination of that message) and
			authenticity (asserted characteristics
1			are genuine). VDE further provides
	1		and requires the components and
	1		capabilities described below.
			Anything less than or different than
			this is not VDE or the described
			"invention."

'900 Claim 155	IT Construction	MS Construction	
		(2) Secure Processing Environment: At each node where VDE-protected information is Accessed, Used, or assigned control information, VDE requires a Secure Processing Environment (as set forth in item #6).	
		(3) VDE Controls: VDE Allows Access to or Use of protected information and processes only through execution of (and satisfaction of the requirements imposed by) VDE Control(s).	
		(4) <u>VDE Secure Container</u> : See construction of Secure Container (see item #57).	
		(5) Non-Circumventable: VDE is non-circumventable (sequestered). It intercepts all attempts by any and all users, processes, and devices, to Access or Use, such as observing, interfering with, or removing) protected information, and prevents all such attempts other than as allowed by execution of (and satisfaction of all requirements imposed by) associated VDE Controls within Secure Processing Environment(s).	
		(6) Peer to Peer: VDE is peer-to-peer. Each VDE node has the innate ability to perform any role identified in the patent application (e.g., end user, content packager, distributor, Clearinghouse, etc.), and can protect information flowing in any direction between any nodes. VDE is not client-server. It does not predesignate and restrict one or more nodes to act solely as a "server" (a provider of information (e.g., authored content, control information, etc.) to other nodes) or "client" (a requestor of such information). All types of protected-content transactions can proceed without requiring interaction with any server.	

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<u>'900 Claim 155</u>	IT Construction	MS Construction
		(7) Comprehensive Range of Functions: VDE comprehensively governs (Controls) all security and commerce activities identified in the patent application, including (a) metering, budgeting, monitoring, reporting, and auditing information usage, (b) billing and paying for information usage, and (c) negotiating, signing and enforcing contracts that establish users' rights to Access or Use information.
		(8) <u>User-Configurable</u> : The specific protections governing (Controlling) specific VDE-protected information are specified, modified, and negotiated by VDE's users. For example, VDE enables a consumer to place limits on the nature of content that may be Accessed at her node (e.g., no R-rated material) or the amount of money she can spend on viewing certain content, both subject only to other users' senior Controls.
		(9) General Purpose; Universal: VDE is universal as opposed to being limited to or requiring any particular type of appliance, information, or commerce model. It is a single, unified standard and environment within which an unlimited range of electronic rights protection, data security, electronic currency, and banking applications can run.
		(10) Flexible: VDE is more flexible than traditional information security and commerce systems. For example, VDE allows consumers to pay for only the user-defined portion of information that the user actually uses, and to pay only in proportion to any quantifiable VDE event (e.g., for only the number of paragraphs displayed from a book), and allows editing the content in VDE containers while maintaining its security.

			MCC
	<u>'900 Claim 155</u>	IT Construction	MS Construction
			For the purposes of the construction of "VDE," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above.
87.	a first host processing environment comprising	host processing environment: This term is explicitly defined in the claim and therefore needs no additional definition. It consists of those elements listed in the claim. Without waiving its position that no separate definition is required, if required to propose such a definition, InterTrust proposes the following: a Protected Processing Environment incorporating software-based security.	host processing environment: (1) A processing environment within a VDE node which is not a Secure Processing Environment. (2) A "host processing environment" may either be "secure" or "not secure." (3) A "secure host processing environment" is a self-contained Protected Processing Environment, formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in protected (privileged) mode. (4) A "non-secure host processing environment" is formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in user mode. For the purposes of the construction of "Host Processing Environment," a "Secure Processing Environment" is defined as set forth in item #4, above.
88.	a central processing unit;		
89.	main memory operatively connected to said central processing unit;	·	
90.	mass storage operatively connected to said central processing unit and said main memory;		

			1500
	<u>'900 Claim 155</u>	IT Construction	MS Construction
91.	said mass storage		
	storing tamper		·
	resistant software		
	designed to be		
	loaded into said	,	
	main memory and		,
	executed by said	,	
	central processing		·
	unit, said tamper		·
	resistant software		
	comprising:		
92.		derives: Normal English: obtains,	derives: To retrieve from a specified
12.	programming which	receives or arrives at through a	source.
	derives information	process of reasoning or deduction. In	·
	from one or more	the context of computer operations,	
	aspects of said host	the "process of reasoning or	
	processing	deduction" constitutes operations	
	environment,	carried out by the computer.	
		•	
		aspect: see item #60 above	aspect: see item #60 above
			_
		host processing environment: see item	host processing environment: see item
		#87 above	#87 above
		derives information from one or more	derives information from one or more
		aspects of said host processing	aspects of said host processing
		environment: Normal English,	environment: (1) Deriving from the
1		incorporating the separately defined	Host Processing Environment
		terms: Derives (including creates)	hardware one or more values that
		information based on at least one	uniquely and persistently identify the
	,	Aspect of the previously referred to	Host Processing Environment and
		Host Processing Environment.	distinguish it from other Host
		<u> </u>	Processing Environments.
			(2) The "one or more aspects of said
			host processing environment" are
1			persistent elements or properties of the
			Host Processing Environment itself
			that are capable of being used to
			distinguish it from other
			environments, as opposed to, e.g., data
	·	·	or programs stored within the mass
			storage or main memory, or processes
			executing within the Host Processing
1			Environment.
93.	one or more storage		
33.	locations storing		
	said information;		
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	'900 Claim 155	IT Construction	MS Construction
94.	integrity programming which causes said machine check programming to derive said information, compares said information to information previously stored in said one or more storage locations, and	derive: see item #92 above compares: Normal English: examines for the purpose of noting similarities and differences. "Comparison" refers to the act of comparing.	derive: see item #92 above compares: A processor operation that evaluates two quantities and sets one of three flag conditions as a result of the comparison – greater than, less than, or equal to.
95.	generates an indication based on the result of said comparison; and	comparison (compares): see item #94 above	comparison (compares): see item #94 above
96.			
97.	said one or more actions including at least temporarily halting further processing.		

. Patent No. 5,917,912, Asserted

	'912 Claim 8	IT Construction	MS Construction
98.	8. A process comprising the following steps:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #93 for Microsoft's construction of VDE.)
99.	accessing a first record containing information directly or indirectly identifying one or more elements of a first component assembly,	containing: see item #58 above component assembly: Components are code and/or data elements that are independently deliverable. A Component Assembly is two or more components associated together. Component Assemblies are utilized to perform operating system and/or applications tasks.	containing: see item #58 above component assembly: (1) A cohesive Executable component created by a channel which binds or links together two or more independently deliverable Load Modules, and associated data. (2) A Component Assembly is assembled, and executes, only within a VDE Secure Processing Environment. (3) A Component Assembly is assembled dynamically in response to, and to service, a particular content-related activity (e.g., a particular Use request). (4) Each VDE Component Assembly is assigned and dedicated to a particular activity, particular user(s), and particular protected information. (5) Each Component Assembly is independently assembled, loadable and deliverable vis-à-vis other Component Assemblies. (6) The dynamic assembly of a Component Assembly is directed by a "blueprint" Record Containing control information for this particular activity on this particular information by this particular user(s). (7) Component Assemblies are extensible and can be configured and reconfigured (modified) by all users, and combined by all users with other Component Assemblies, subject only to other users' "senior" Controls. For the purposes of the construction of "Component Assemblies, subject only to other users' "senior" Controls. For the purposes of the construction of "Component Assembly," "Load Module," "Secure Processing Environment" and "Record" are defined as set forth in item #4 above.
100.	at least one of said elements including at least some	executable programming (executable): see item #73 above	executable programming: A cohesive series of machine code instructions, comprising a computer program, in a
L		L AIM CONSTRUCTION STATEMEN	

EXHIBIT A TO JOINT CLAIM CONSTRUCTION STATEMENT

	<u> '912 Claim 8</u>	IT Construction	MS Construction
	executable programming,		format that can be loaded into memory and run (executed) by a connected processor. A "computer program" is a complete series of definitions and instructions that when executed on a computer will perform a required or requested task.
101.	at least one of said elements constituting a load module,		
102.		executable programming (executable): see item #73 above	executable programming: see item #100 above
103.		aspect: see item #59 above use: see item #42 above identifying at least one aspect of an execution space required for use and/or execution of the load module: Normal English, incorporating the separately defined terms: identifying an Aspect (e.g. security level) of an execution space that is needed in order for the load module to execute or otherwise be used.	aspect: see item #59 above use: see item #42 above identifying at least one aspect of an execution space required for use and/or execution of the load module: (1) Defining fully, without reference to any other information, at least one of the persistent elements or properties (Aspects) (that are capable of being used to distinguish it from other environments of an execution space) that are required for any Use, and/or for any execution, of the Load Module. (2) An execution space without all of those required aspects is incapable of making any such execution and/or other Use (e.g., Copying, displaying, printing) of the Load Module. For the purposes of the construction of this phrase, a "Load Module" is defined as set forth in item #4, above

		Tm C	MS Construction
}	<u> '912 Claim 8</u>	IT Construction	MS Construction
104.		identifier: see item #28	identifier: see item #28
1	space identifier		·
	provides the		
	capability for		
	distinguishing		
	between execution		
	spaces providing a		
	higher level of		
	security and	,	
	execution spaces		
	providing a lower		
	level of security;		
105.	. .		
	information to		
	identify and locate	·	
	said one or more		
	elements;		
106.			
	located one or more		
105	elements;	securely: see item #3 above	securely: see item #3 above
107.		securery: see item #3 above	Security, see tem "5 doore
	assembling said one or more elements to	component assembly: see item #98	component assembly: see item #98
	form at least a	above	above
	portion of said first	above	
	component		
	assembly;		
108.		executable programming (executable):	executable programming: see item
100.	some of said	see item #73 above	#100 above
1	executable		
	programming; and		
109.			
	record for validity		
	prior to performing		
	said executing step.		

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	'912 Claim 35	IT Construction	MS Construction
110		The claim contains no requirement of	Claim as a whole: The recited method
110.	35. A process	a VDE.	is performed within a VDE. (See item
	comprising the	a VDE.	#86 for Microsoft's construction of
	following steps:	· ·	VDE.)
			VDE.)
111.	at a first		*
	processing		
	environment		
	receiving a first		
1 1	record from a		·
	second processing		
	environment		
	remote from said		
	first processing		
	environment;	nea 1	
112.	said first record	secure container: see item #57 above	secure container: see item #57 above
	being received in a		·
	secure container;		457.1
113.	said first record	containing: see item #57 above	containing: see item #57 above
	containing		11
	identification	component assembly: see item #98	component assembly: see item #98
	information	above	above
1	directly or	·	
	indirectly		
	identifying one or		
1	more elements of a		
	first component		
	assembly;		
114.	at least one of said	executable programming (executable):	executable programming: see item #100 above
	elements including	see item #73 above	#100 above
	at least some		
	executable		
	programming;	11	component assembly: see item #98
115.	said component	component assembly: see item #98	· ·
	assembly allowing	above	above
	access to or use of		year see item #42 shave
	specified	use: see item #42 above	use: see item #42 above
	information;		Language contained con item 457 at any
116.	said secure	secure container: see item #57 above	secure container: see item #57 above
	container also		·
	including a first of		
L	said elements;		
117.	accessing said first		
	record;		
118.	using said		
	identification		
	information to		
	identify and locate		

		- TO C	MC Compt.
	<u> '912 Claim 35</u>	IT Construction	MS Construction
	said one or more		
	elements;		
119.	said locating step		
	including locating	·	
	a second of said	•	
	elements at a third		
	processing		· .
	environment		
1	located remotely		, i
	from said first		·
	processing		
	environment and		
	said second		
	processing		·
	environment;		
120.	accessing said		·
	located one or		
	more elements;		· · · · · · · · · · · · · · · · · · ·
121.	said element		
	accessing step		A:
	including		
	retrieving said		
	second element		
	from said third		
	processing		
100	environment;	securely (secure): see item #3 above	securely (secure): see item #3 above
122.	securely	securery (secure). See item #3 above	Securety (Secure). See Roll #3 above
	assembling said one or more	component assembly: see item #98	component assembly: see item #98
	elements to form	above	above
	at least a portion	10010	
	of said first		
,	component		4
	assembly		
	specified by said		
	first record; and		
123.	executing at least	executable programming (executable):	executable programming: see item
	some of said	see item #73 above	#100 above
	executable		
	programming,		
124.			
	taking place at said		
	first processing		
	environment.		
L	1		